



Tennessee Department of Environment and Conservation,
Division of Water Pollution Control
401 Church Street, 6th Floor L & C Annex, Nashville, TN 37243
(615) 532-0625

**CONCENTRATED ANIMAL FEEDING OPERATION (CAFO)
STATE OPERATING PERMIT (SOP)
NOTICE OF INTENT (NOI)**

Type of permit you are requesting: ☐ SOPCD0000 (designed to discharge) ☒ SOPC00000 (no discharge) ☐ Unknown, please advise
Application type: ☐ New Permit ☐ Permit Reissuance ☐ Permit Modification
If this NOI is submitted for Permit Modification or Reissuance provide the existing permit tracking number: _____

OPERATION IDENTIFICATION

Operation Name: <u>Crutchfield Farms</u>		County: <u>Weaver</u>
Operation Location/ Physical Address: <u>852 Bill Nanney Rd</u> <u>Dukeclon TN 38226</u>		Latitude: <u>036° 27' 40" 851"</u> Longitude: <u>088° 41' 24" 715"</u>
Name and distance to nearest receiving water(s): <u>.4 mile from unimproved & .9 mile from North Fork</u>		
If any other State or Federal Water/Wastewater Permits have been obtained for this site, list those permit numbers: <u>Obion River</u>		
Animal Type: <input checked="" type="checkbox"/> Poultry <input type="checkbox"/> Swine <input type="checkbox"/> Dairy <input type="checkbox"/> Beef <input type="checkbox"/> Other _____		
Number of Animals: <u>22,000 hogs</u>	Number of Barns: <u>6</u>	Name of Integrator: <u>Tyson Food</u>
Type of Animal Waste Management: <input checked="" type="checkbox"/> Dry <input type="checkbox"/> Liquid <input type="checkbox"/> Liquid, Closed System (i.e. covered tank, under barn pit, etc.)		
Attach the NMP <input checked="" type="checkbox"/> NMP Attached	Attach the closure plan <input checked="" type="checkbox"/> Closure Plan Attached	Attach a topographic map <input checked="" type="checkbox"/> Map Attached

PERMITTEE IDENTIFICATION

Official Contact (applicant): <u>Donna Crutchfield</u>	Title or Position: <u>owner</u>		<input checked="" type="checkbox"/> Correspondence <input checked="" type="checkbox"/> Invoice
Mailing Address: <u>852 Bill Nanney Rd</u>	City: <u>Dukeclon</u>	State: <u>TN</u> Zip: <u>38226</u>	
Phone number(s): <u>731-332-0173</u>	E-mail:		
Optional Contact:	Title or Position:		<input type="checkbox"/> Correspondence <input type="checkbox"/> Invoice
Address:	City:	State: Zip:	
Phone number(s):	E-mail:		

APPLICATION CERTIFICATION AND SIGNATURE (must be signed in accordance with the requirements of _____)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and title; print or type <u>Donna Crutchfield - owner</u>	Signature <u>Donna Crutchfield</u>	Date <u>5-13-2011</u>
---	---------------------------------------	--------------------------

STATE USE ONLY

Received Date RECEIVED	Reviewer	EFO	T & E Aquatic Fauna	Tracking No. <u>SOPC00104</u>
Impaired Receiving Stream		High Quality Water		NOC Date

CN-1147 (Rev. 07/10)

continued

RDA 2366

IN Division Of Water
Pollution Control

RECEIVED

MAY 23 2011



Tennessee Department of Environment and Conservation
Division of Water Pollution Control
401 Church Street, 6th Floor L & C Annex
Nashville, TN 37243-1534
Phone: (615) 532-0625

PERMIT CONTACT INFORMATION

Please complete all sections. If one person serves multiple functions, please repeat this information in each section.

PERMIT NUMBER: TN0080390

DATE: 5-10-2011

PERMITTED FACILITY: Crutchfield Farms

COUNTY: Weakley

OFFICIAL PERMIT CONTACT:

The permit signatory authority, e.g. responsible corporate officer, principle executive officer or ranking elected official)

Official Contact:	<u>Donna Crutchfield</u>			Title or Position:	<u>owner</u>		
Mailing Address:	<u>852 Bill Danner Rd</u>			City:	<u>Dukeedom</u>	State:	<u>TN</u>
Phone number(s):	<u>731-332-0173</u>			E-mail:			
				Zip:	<u>38226</u>		

PERMIT BILLING ADDRESS (where invoices should be sent):

Billing Contact:	<u>Donna Crutchfield</u>			Title or Position:	<u>owner</u>		
Mailing Address:	<u>852 Bill Danner Rd</u>			City:	<u>Dukeedom</u>	State:	<u>TN</u>
Phone number(s):	<u>731-332-0173</u>			E-mail:			
				Zip:	<u>38226</u>		

FACILITY LOCATION (actual location of permit site and local contact for site activity):

Facility Location Contact:	<u>Donna Crutchfield</u>			Title or Position:	<u>owner</u>		
Facility Location (physical street address):	<u>852 Bill Danner Rd</u>			City:	<u>Dukeedom</u>	State:	<u>TN</u>
Phone number(s):	<u>731-332-0173</u>			E-mail:			
				Zip:	<u>38226</u>		

Alternate Contact (if desired):				Title or Position:			
Mailing Address:				City:		State:	
Phone number(s):				E-mail:			
				Zip:			

RECEIVED
JUN 02 2011

FACILITY REPORTING (Discharge Monitoring Report (DMR) or other reporting):

Cognizant Official authorized for permit reporting:	<u>Donna Crutchfield</u>			Title or Position:	<u>owner</u>		
Mailing Address:	<u>852 Bill Danner Rd</u>			City:	<u>Dukeedom</u>	State:	<u>TN</u>
Phone number(s):	<u>731-332-0173</u>			E-mail:			
				Zip:	<u>38226</u>		
Fax number for reporting:				Does the facility have interest in starting electronic DMR reporting?	Yes	No	

RECEIVED

APPENDIX C

Agreement for the Removal of Litter, Manure and/or Process Wastewater from an AFO

The conditions listed below help to protect water quality. These conditions apply to litter, manure and/or process wastewater removed from an AFO. This agreement is for (amount of waste removed, i.e. tons, gallons, etc.)

to be determined of waste, removed on (date) when needed, from the facility owned by

Donna Crutchfield and located at
852 B. H. Nunn Rd. W. Hickman TN 38224

- A. The litter, manure and/or process wastewater must be managed to ensure there is no discharge of litter, manure and/or process wastewater to surface or groundwater.
- B. When removed from the facility, litter, manure and/or process wastewater should be applied directly to the field or stockpiled and covered with plastic or stored in a building.
- C. Litter, manure and/or process wastewater must not be stockpiled near streams, sinkholes, wetlands or wells.
- D. Fields receiving litter, manure and/or process wastewater should be soil tested at least every two or three years.
- E. A litter, manure and/or process wastewater nutrient analysis should be used to determine application rates for various crops.
- F. Calibrate spreading equipment and apply litter, manure and/or process wastewater uniformly.
- G. Apply no more nitrogen or phosphorus than can be used by the crop.
- H. A buffer zone is recommended between the application sites and adjacent streams, lakes, ponds, sinkholes and wells. The following non-application buffer widths, as recommended by the University of Tennessee Extension, should be used when applicable:

Object, Site	Buffer Width, feet	Situation
Wells	150	Up-slope of application site
	300	Down-slope of application site, if conditions warrant application
Waterbody	30-100	Depending on the amount and quality of vegetation and slope
Public Use Area	300	All
Residences	300	Other than producer

- I. Do not apply litter, manure and/or process wastewater when the ground is frozen or on steep slopes subject to flooding, erosion, during rain events, or onto saturated soil, or rapid runoff.
- J. Cover vehicles hauling litter, manure and/or process wastewater on public roads.
- K. Keep records of locations where poultry litter will be used as a fertilizer.

I, George A. Palmertree am the person receiving litter, manure, and/or
(name)
process wastewater and do understand the conditions listed above.

(signature)

566 Rice Lane Hickman KY
(address) 42050

(date)

270-883-4517
(phone)

IN Division Of Water
Pollution Control

RECEIVED

MAY 23 2011

9. Appendix C: Waivers and Agreements

Agreement for Removal of Litter, Manure and/or Process Wastewater from an AFO

(base on Appendix A of: TDEC Division of Water Pollution Control, Chapter 1200-4-5 Permit Effluent Limitations and Standards, July 2004).

The conditions listed below help to protect water quality. These conditions apply to litter, manure and/or process wastewater removed from an AFO. The material covered by this agreement was removed on

litter from the facility owned by Donna Hutchfield, located at 852 Bill Waverly Rd Dukesboro TN 38226.

- A. The litter, manure and/or process wastewater must be managed to ensure there is no discharge of litter, manure and/or process wastewater to surface or ground water.
- B. When removed from the facility, litter, manure and/or process wastewater should be applied directly to the field or stockpiled and covered with plastic or stored in a building.
- C. Litter, manure and/or process wastewater must not be stockpiled near streams, sinkholes or wells.
- D. Fields receiving litter, manure and/or process wastewater should be soil tested at least every two or three years.
- E. A litter, manure and/or process wastewater nutrient analysis should be used to determine application rates for various crops.
- F. Calibrate spreading equipment and apply litter, manure and/or process wastewater uniformly.
- G. Apply no more nitrogen than can be used by the crop.
- H. A buffer zone is recommended between the application sites and adjacent streams, lakes, ponds, sinkholes and wells.
- I. Do not apply litter, manure and/or process wastewater when the ground is frozen, or on steep slopes subject to flooding, erosion or rapid runoff.
- J. Cover vehicles hauling litter, manure and/or process wastewater on public roads.
- K. Keep records of locations where litter, manure and/or process wastewater will be used as a fertilizer.

I, George A. Palmertree am the person receiving litter, manure and/or process

(name)

wastewater and I understand the conditions listed above.

George A. Palmertree

1-5-10

(signature)

(date)

566 Rice Lane Hickman

270-883-4517

(address)

Ky. 42050

(phone)

RECEIVED

JUN 02 2011

TN Division of Water
Pollution Control

RECEIVED

MAY 23 2011

Addendum to Nutrient Management Plan:

By my signature below, I affirm that I have read, understand, and will comply with the following stipulations from Tennessee's CAFO rule (1200-4-5-.14) that apply to my CAFO operation.

- 1) All clean water (including rainfall) is diverted, as appropriate, from the production area.
- 2) All animals in confinement are prevented from coming in direct contact with waters of the state.
- 3) All chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
- 4) All sampling of soil and manure/litter is conducted according to protocols developed by UT Extension.
- 5) All records outlined in 1200-4-5-.14(16)d-f will be maintained and available on-site.
- 6) Any confinement buildings, waste/wastewater handling or treatment systems, lagoons, holding ponds, and any other agricultural waste containment/treatment structures constructed after April 13, 2006 are or will be located in accordance with NRCS Conservation Practice Standard 313.
- 7) Drystacks of manure or stockpiles of litter are always kept covered under roof or tarps.
- 8) An *Annual Report* will be written for my operation and submitted between January 1 and February 15 of each year. It will include all information required by rule [1200-4-5-.14(16)g].


Signature of CAFO Operator:

5-13-2011
Date:

RECEIVED

JUN 02 2011

TN Division Of Water
Pollution Control

RECEIVED

MAY 23 2011

THIS IS TO ACKNOWLEDGE THAT THE CNMP WAS WRITTEN WITH LANGUAGE ABOUT 25 YR, 24 HOUR
RAINFALL EVENT. WE REALIZE IT SHOULD BE STATED 100 YR, 24 HR RAINFALL EVENT.

Name

Donna Gutcheled

Date

5-13-2011

RECEIVED

JUN 02 2011

IN Division Of Water
Pollution Control

RECEIVED

MAY 23 2011

1. CNMP Signature Page

Owner/Operator

Owner/Operator: Donna Crutchfield	Phone: (731) 332-0173
Address: 852 Billy Nanney Road City: Dukedom, TN 38223	
Farm(s)#: 6622	Tract(s):

The following people have assisted with the development of the CNMP and certify that their elements meet all applicable NRCS Standards.

CNMP Total Plan

Signature: <i>Daphne D Jenkins</i>	Date: <i>5-13-2011</i>
Name: Daphne Dianne Jenkins	
Title: CNMP Writer, CCA, TSP	

Owner/ Operator

As the owner/operator, I certify that as the decision-maker, I have been involved in the planning process and agree that the items listed in each element are needed. I understand that I am responsible for keeping all necessary records associated with the implementation of this CNMP. It is my intent to implement this CNMP in a timely manner as described in the plan.	
Signature: <i>Donna Crutchfield</i>	Date: <i>5-13-2011</i>

RECEIVED

JUN 02 2011

TN Division Of Water
Pollution Control

RECEIVED

MAY 23 2011



TENNESSEE DEPARTMENT OF AGRICULTURE
Water Resources Program

May 26, 2011

Ms. Erin O'Brien
TDEC
L&C Annex, 6th Floor
Nashville, Tennessee 37243

Dear Ms. O'Brien:

I am writing to inform you that I have reviewed the application and Nutrient Management Plan (NMP) for CAFO permit for Donna Crutchfield, Crutchfield Farms in Dukedom, Tennessee (previous NPDES Permit NO. TN0080390).

This letter is to confirm that the TDA has reviewed and approved the NMP. I have enclosed a copy of the Nutrient Management Plan Requirements form and the original signed and dated Notice of Intent (NOI) form, Addendum to Nutrient Management Plan, and stamped Approval Stamp form for your review and final approval.

Sincerely,

Angela L. Warden
CAFO Specialist

: //enclosures

ec:// Mrs. Dianne Jenkins, Technical Service Provider

RECEIVED

JUN 02 2011

TN Division Of Water
Pollution Control



TENNESSEE DEPARTMENT OF AGRICULTURE

Water Resources Program

The following individual has submitted all required elements of an NMP/CNMP as required to obtain a CAFO permit. Their Nutrient Management Plan (or CNMP) has been reviewed and approved by this office.

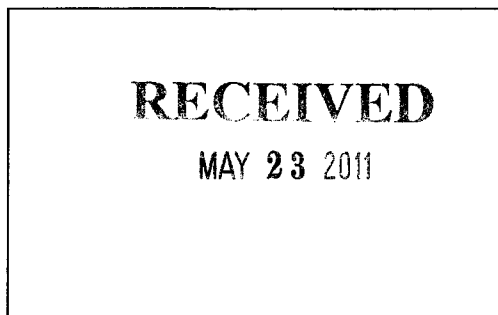
Name of Owner/Operator: Donna Crutchfield

Operation Name: Crutchfield Farms

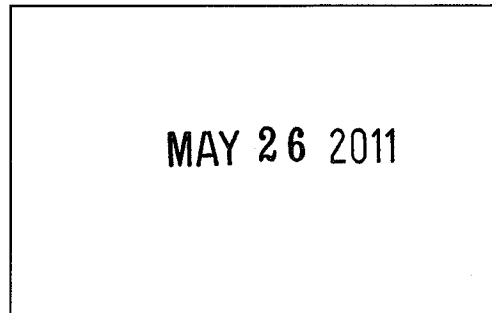
Address of Operation: 852 Bill Nanny Rd. Dukedom, TN 38226

Phone Number: (731) 332-0173 County: Weakley

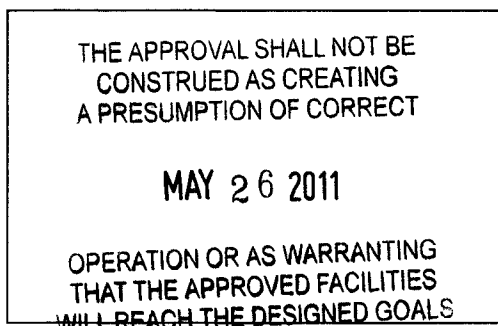
Date application was initiated:



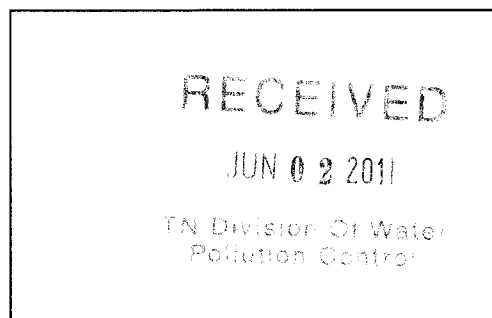
Date approval forwarded to TDEC:



NMP/CNMP Approval Date:



Date approval received by TDEC



TDA Reviewer's Name: Angela Warden

TDA Reviewer's Signature: Angela Warden 5/26/11
Date

Nutrient Management Plan Requirements

The following 9 items need to be submitted at the time the permit is applied for. Additional record-keeping items as outlined in the CAFO rules are also considered part of the nutrient management plan and must be kept on-site. More information on each item can be found in the CAFO rule (1200-4-5-.14).

- ☒ 1. **Two maps:** (1.) A map of your farm showing location of any animal barns/houses, compost bins, litter storage bins, manure lagoons/holding ponds, nearby roads, fields to which litter/manure will be applied, and non-application buffer areas around any bodies of water (streams, creeks, rivers, ponds, wells, sinkholes, springs, wetlands, etc.). A hand-drawn map is acceptable and even preferred. (2.) A topographic map of the farm (1:24000 scale, showing 1-mile radius from farm) showing property lines.
- ☒ 2. **Nutrient budget** – this is basically a balance sheet of all manure produced on the farm and all manure spread on the farm or removed from the farm. Application rates for all fields should be based on crop needs, realistic crop yield expectations, and actual manure analyses of nutrient content.
- ☒ 3. **Soil test results** for phosphorus and potassium for each application field. These must be taken at a minimum of every five years.
- ☒ 4. Results of **manure analysis** from within the past year. Annual manure testing is a requirement for all CAFOs. These results must be included with initial permit application if the farm is in operation. If the farm that is applying for the permit is new and not yet operating, then manure testing results need to be obtained once operation begins. At that point, the manure test results and revised application rates need to be submitted to TDA. Manure test results in subsequent years need to be kept as part of your record-keeping activities.
- ☒ 5. Results of the **Phosphorus Index** applied to each field that has a soil test P value of "High" or "Very High". In those situations, this tool will determine whether your application rates will be based on nitrogen or phosphorus.
- ☒ 6. Statement regarding method of **dead animal disposal**.
- ☒ 7. **Closure Plan** to be implemented in the event animal production ceases on the site.

These last two items are only required for medium-size CAFOs that manage **liquid manure**.

- ☒ 8. Documentation of **design of liquid waste handling system**. This should include, but is not limited to: volume for solids accumulation, design treatment volume, total design volume, the approximate number of days of storage capacity, pumping and routing of wastes, and any solid separation process. Ideally, this documentation would consist of the pertinent engineering drawings with accompanying descriptive narrative.
- ☒ 9. The construction, modification, repair, or installation of any portion of a CAFO liquid waste handling system (such as earthen holding pond, treatment lagoon, pit, sump or other earthen storage/containment structure) after April 13, 2006 must be preceded by a thorough **subsurface investigation**. This investigation will include a detailed soils investigation with special attention to the water table depth and seepage potential.

In addition to the items above, the following form(s) must accompany your application:

- ☒ **Notice of Intent form** must be submitted with all applications from Class II (Medium) CAFOs.
- ☒ **EPA Forms 1 and 2B** must be submitted with all applications from Class I (Large) CAFOs.
- ☒ **Addendum to Nutrient Management Plan**.

OR

RECEIVED

JUN 02 2011

TN Division of Water
Pollution Control